

## **Table of Contents**

No.	Title	Page
1	Taking Advantage of Single Patient Rooms as a Major Support for the Healing Environment System in Egyptian Hospitals	1
	Adel Hussein, Mohamed Rabie, and Mohamed M. Mahdy	
2	Adapting Existing Hospitals for Infectious Disease Prevention and Control  A. S. Elsaadany and Khaled S. Ahmed	6
3	Sustainable Urban Design of Urban Spaces in Residential Areas and Their Impact on Human Behavior	13
	Amira Gaber, Walla Ahmed Elsayed Nour, and Marwa Ahmed Kamar Al-Dawla	
4	Benefits and Challenges of Integrating IoT, VR & AR in the BIM-based Facility Management Process: Literature and Case-based Analysis	25
	Ahmed Omar M.S. Mostafa and Ahmed Yasser M. M. Alaqeeli	
5	Health Promoting Qualities Framework for Blue and Green Landscapes: Applying Perceived Restorativeness on a Case Study of Nile Riverfront in Greater Cairo Region	41
	Sara Tarek	
6	BIM & BEM for a Net Zero Energy House Model Case Study: A Housing Unit in Riyadh, SA	56
	Ahmed Omar M.S. Mostafa and Raghad Ahmad Aljarboun	
7	The Ladder of Emotional Mapping: Visualizing Emotions for Planning Inclusive Cities	67
	Mennatullah Hendawy, Maria Carmela Valverde Gonzales, and Hend A. Elhawy	
8	How Does The Interior Design of Learning Spaces Impact The Students` Health, Behavior, and Performance?	74
	J. Q. Shaymaa El-Sayed Gad, Walaa Ahmed Nour, and Marwa Kamer El Dawla	
9	Setting an Agenda for Urban AI Adaptivity in Urban Planning and Architecture E-learning	88
	Somaya Kayed, Lamiaa Ghoz, Farah Elbehairy , Ahmed Ghonim, and Mennatullah Hendawy	
10	Characteristics of Iconic High-rise Buildings	07
	Tarek Gaber, Ibrahim Maarouf, and Amira A. Fathi	97
11	Sustainable Urban Quality-of-Life in Neighborhoods: Bridging the Gap between Satisfaction and Performance in Four Types of Neighborhoods in GCR - Egypt  Islam Ghonimi	105



12	Transformation of Architectural Qualities in Old Cities in Oman over a Decade	122
	J. Q. Mariam Ebeid	
13	Influence of Landscape Elements on Visual Design Elements in Order to Enhance the Visual Quality of Urban Spaces  Mona Y. Shedid and Noha H. Hefnawy	127
14	Health Justice: The Entanglement of Quality of Life and Neoliberalism  Rana Hammam, Salma Anwar, and Mennatullah Hendawy	135
15	The Role of Human Needs in Urban Renewal and Development of Urban Spaces for City Centers	143
	Elham Fettouh El-Dmerdash, Walaa Ahmed Nour, Marwa Kamar Al-Dawla	
16	The Proportions Code and the Environmental Aspects as a Design Generator for the Minarets in Cairo of the Mamluks Abdullah Mossa Alzahrani and Ahmed Ali Ahmed Gaber	158
	كفاءة الطاقة في المباني - التقليل من احتياجات المبنى من التبريد	
17	Reduction of Cooling Energy Needs for Buildings	169
1 /	م. حنان حسن علي عرفات	10)
	تأثير البعد الاجتماعي على الكفاءة العمرانية	
	"رؤية لتحقيق جودة الحياة بالمدن الجديدة"	
18	The Impact of the Social Dimension on Urban Efficiency: A Vision to Achieve Quality of Life in New Cities	177
	د/ مروة عاطف عبد المهادي - م/ عبير طارق القباني	
	التأثير التبادلي بين التصميم وسلوك المستعملين تطبيقا على الفراغات العامة	
19	The Complementary Effect between Design and User Behavior in Application to Public Spaces	187
	أ.م.د أيمن عبد الحميد أمين - أحمد محمد سعيد السعدني	
	السياحة البيئية وأثرها على التنمية الاقتصادية في النوبة في إطار خطة الاستدامة	
	(دراسة حالة للارتقاء بمستوى معيشة السكان وتحقيق الاستدامة من الإمكانيات والثروات الطبيعية)	
	- (جزيرة هيسا – أسوان) - (جزيرة هيسا – أسوان)	
20	Ecotourism and its impact on economic development in Nubia Within the framework of the sustainability plan (A case study to raise the standard of living of the population and to achieve sustainability through the use of natural resources and capabilities) – (Heissa Island – Aswan)	196
	أ.د./ إيمان محمد عيد عطية -م/ وسام قدري الشرقاوي	
21	التقنيات الرقمية لإحكام الجداول الزمنية لمشاريع التشييد - تحليل مبنى على المراجعات الأدبية للإتجاهات والتحديات	207



	Digital Technologies to Enhance Construction Schedules - Literature-based Analysis for Trends and Challenges	
	أحمد عمر محمد سيد مصطفى - محمد سليمان الجارالله	
	العلاقة بين التصميم العمر انى و الاستدامة الاجتماعية للفراغات العمر انية العامة - در اسة حالة (الحدائق)	
22	The Relationship between Urban Design and The Social Sustainability of Public Urban Spaces: Case Study (Gardens)	218
	Taqwa Mohamed Sobhy , Marwa Ahmed Kamer Al-Dawla, and Walaa Ahmed Elsayed Nour	
	مواد البناء الذكية نحو مباني بيئية صحية - ( دراسة حالة: وحدة المرضي بالمستشفيات )	
23	Smart Building Materials Towards Environmental Healthy Buildings - Case Study: Inpatient Unit in Hospitals	231
	Marwa Ahmed Kamer Al-Dawla, Nawal Nasser Shabaka, and Mai Wahba Mohamed Madkour	
	نمذجة معلومات المباني والمحاكاة الرقمية لتقييم بدائل تحسين الأداء الحراري لنوافذ واجهات المباني - حالة دراسية: وحدة سكنية بمدينة الرياض	
24	BIM and Digital Simulation in Assessing Window Alternatives for Enhancing Heat Performance of Building Facades - Case Study: A Housing Unit in Riyadh, SA	249
	أحمد عمر محمد سيد مصطفى - يسر قسم الله محمد رشوان	
	تقنيات الخامات وتأثيرها في المعايير التصميمية للمباني الثقافية	
25	Material Techniques and Their Impact on the Design Standards of Cultural Buildings	258
	شيماء عبد المجيد عبد المجيد إبراهيم - هبه محمد موسى القرني	
26	Transparency in Architecture and its Mutual Effects Between Built and Natural Environment	309
	Adel Abbas, and Khaled Dewidar	
27	The Search for a New Theory of Sustainable Architectural Design: Breathing Architecture	319
	Tamer Anwer El Gabaly , and Rasha Said Abd el-Lateef	
28	Integrating the Principles of Lean Management into the Design Process of Green Tall Buildings	326
	Pensee Tarek, Laila M Khodeir, and Ahmed A Faggal	
29	Voronoi Diagram Applications Towards New Sustainable Architectural Language	332
	Adel Abbas	